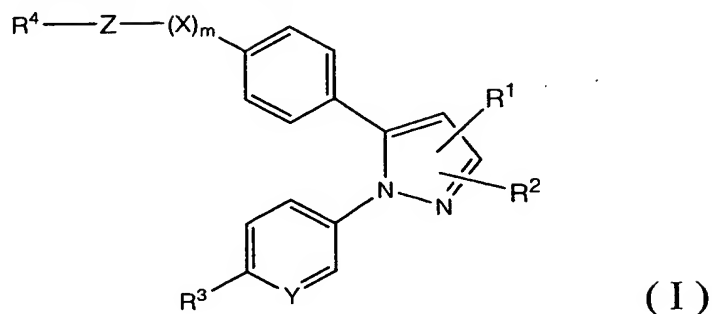


# CLAIMS

1. A compound of the formula (I):



- 5    wherein  $R^1$  is hydrogen or lower alkyl;  
 $R^2$  is lower alkyl optionally substituted with  
halogen, hydroxy, lower alkoxyimino or lower  
alkoxy; lower alkenyl; cycloalkyl; cyano;  
lower alkanoyl; cycloalkylcarbonyl;  
10    N,N-di(lower)alkylcarbamoyl; carbamoyl;  
N-lower alkoxy-N-lower alkylcarbamoyl; amino;  
di(lower)alkylamino;  
lower alkoxycarbonylamino;  
N,N-di(lower)alkylcarbamoylamino;  
15    N-(N,N-di(lower)alkylcarbamoyl)-N-lower  
alkylamino; halogen; hydroxy; carboxy; lower  
alkoxycarbonyl; aroyl; heterocycliccarbonyl;  
heterocyclic group; lower alkylsulfonyl;  
lower alkoxy optionally substituted with lower  
20    alkoxy, N,N-di(lower)alkylcarbamoyl or  
halogen; cycloalkyloxy; lower alkylthio; or  
lower alkylsulfinyl;  
 $R^3$  is lower alkyl optionally substituted with amino,  
carbamoylamino or lower alkylsulfonylamino;  
25    halogen; cyano; hydroxy; lower alkanoyloxy;  
lower alkylenedioxy; lower alkoxy optionally

5 substituted with aryl, hydroxy, cyano, amino,  
lower alkoxy-carbonylamino, lower  
alkylsulfonylamino or carbamoylamino;  
nitro; amino; heterocyclic group; lower  
alkylthio; lower alkylsulfinyl; or lower  
alkylsulfonyl;

$R^4$  is hydrogen; cyano; amino optionally substituted  
with phthaloyl or lower alkyl; aryl;  
heterocyclic group; lower alkoxy; hydroxy;  
10 lower alkylsulfonyloxy; lower alkanoyloxy;  
lower alkyl substituted with tritylamino and  
lower alkoxy-carbonyl, amino and lower  
alkoxy-carbonyl, amino and carboxy, amino and  
carbamoyl, or amino and hydroxy; N-lower  
15 alkoxy-carbonyl-N-lower alkylamino; lower  
alkanoyl optionally substituted with  
halogen; carboxy; lower alkylsulfonyl;  
sulfo; lower alkylsilyloxy; lower  
alkoxy-carbonyl; sulfamoyl optionally  
20 substituted with lower alkyl; carbamoyl  
optionally substituted with lower alkyl;  
lower alkylthio; lower alkylsulfinyl;  
carbamoyloxy; thioureido; or  
a group of the formula:

25  $R^5-G-J-$

in which G is  $-CO-$  or  $-SO_2-$ ;

J is  $-N(R^6)-$

(wherein  $R^6$  is hydrogen or lower alkyl); and

$R^5$  is amino optionally substituted with  
30 lower alkoxy-carbonyl or lower  
alkyl; lower alkyl optionally  
substituted with hydroxy, lower

alkoxycarbonylamino, lower  
alkanoyloxy, amino or halogen;  
lower alkoxy; hydrogen;  
heterocyclic group; or aryl;

5 X is O, S, SO or SO<sub>2</sub>;

Y is CH or N;

Z is lower alkylene or lower alkenylene; and

m is 0 or 1;

provided that when R<sup>4</sup> is hydrogen;

10 then R<sup>3</sup> is lower alkyl substituted with amino,  
carbamoylamino or lower  
alkylsulfonylamino; or lower alkoxy  
substituted with aryl, hydroxy, cyano,  
amino, lower alkoxycarbonylamino,  
15 lower alkylsulfonylamino or  
carbamoylamino;

or salts thereof.

2. The compound of Claim 1, wherein

20 R<sup>1</sup> is hydrogen;

R<sup>2</sup> is lower alkyl optionally substituted with halogen,  
hydroxy, lower alkyoxyimino or lower alkoxy;  
cycloalkyl; halogen; lower alkoxy optionally  
substituted with halogen; or lower alkylthio;

25 R<sup>3</sup> is lower alkoxy optionally substituted with aryl,  
hydroxy, cyano, amino, lower  
alkoxyxcarbonylamino, lower  
alkylsulfonylamino or carbamoylamino;

R<sup>4</sup> is a group of the formula:

30 R<sup>5</sup>-G-J-

in which R<sup>5</sup>, G and J are each as defined in  
claim 1;

X is O or S; and  
Z is lower alkylene.

3. The compound of Claim 2, wherein

5         $R^2$  is lower alkyl optionally substituted with halogen;  
             cycloalkyl; halogen; or lower alkoxy optionally  
             substituted with halogen;

$R^3$  is lower alkoxy;

$R^4$  is a group of the formula:

10         $R^5-G-J-$

             in which G is  $-CO-$  or  $-SO_2-$ ,

             J is  $-NH-$  and

$R^5$  is amino or lower alkyl; and

X is O.

15

4. The compound of Claim 3, which is

N-(2-{4-[3-chloro-1-(4-methoxyphenyl)-1H-pyrazol-5-yl]-  
phenoxy}ethyl)urea,

20        N-{4-[3-(difluoromethyl)-1-(4-methoxyphenyl)-1H-  
pyrazol-5-yl]benzyl}methanesulfonamide,

N-{4-[3-(difluoromethyl)-1-(4-methoxyphenyl)-1H-  
pyrazol-5-yl]benzyl}urea,

N-(2-{4-[3-(difluoromethyl)-1-(4-methoxyphenyl)-1H-  
pyrazol-5-yl]phenoxy}ethyl)urea,

25        N-(2-{4-[1-(4-methoxyphenyl)-3-(trifluoromethyl)-1H-  
pyrazol-5-yl]phenoxy}ethyl)urea,

N-(2-{4-[3-(difluoromethyl)-1-(6-methoxy-3-pyridinyl)-  
1H-pyrazol-5-yl]phenoxy}ethyl)urea,

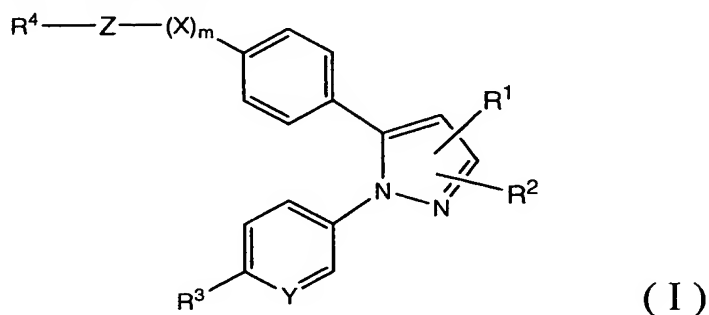
30        N-(2-{4-[3-cyclopropyl-1-(4-methoxyphenyl)-1H-pyrazol-  
5-yl]phenoxy}ethyl)urea,

N-(2-{4-[3-(difluoromethyl)-1-(6-methoxy-3-pyridinyl)-  
1H-pyrazol-5-yl]phenoxy}ethyl)urea,

N-(2-{4-[1-(4-methoxyphenyl)-3-(trifluoromethyl)-1H-pyrazol-5-yl]phenoxy}ethyl)acetamide, or  
 N-(2-{4-[3-(2,2-difluoroethoxy)-1-(6-methoxy-3-pyridinyl)-1H-pyrazol-5-yl]phenoxy}ethyl)urea.

5

5. A process of preparing a compound of the formula:



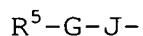
wherein  $R^1$  is hydrogen or lower alkyl;

$R^2$  is lower alkyl optionally substituted with  
 10 halogen, hydroxy, lower alkoxyimino or lower  
 alkoxy; lower alkenyl; cycloalkyl; cyano;  
 lower alkanoyl; cycloalkylcarbonyl;  
 N,N-di(lower)alkylcarbamoyl; carbamoyl;  
 N-lower alkoxy-N-lower alkylcarbamoyl; amino;  
 15 di(lower)alkylamino;  
 lower alkoxy-carbonylamino;  
 N,N-di(lower)alkylcarbamoylamino;  
 N-(N,N-di(lower)alkylcarbamoyl)-N-lower  
 alkylamino; halogen; hydroxy; carboxy; lower  
 20 alkoxy-carbonyl; aroyl; heterocycliccarbonyl;  
 heterocyclic group; lower alkylsulfonyl;  
 lower alkoxy optionally substituted with lower  
 alkoxy, N,N-di(lower)alkylcarbamoyl or  
 halogen; cycloalkyloxy; lower alkylthio; or  
 25 lower alkylsulfinyl;

$R^3$  is lower alkyl optionally substituted with amino,  
 carbamoylamino or lower alkylsulfonylamino;

halogen; cyano; hydroxy; lower alkanoyloxy;  
lower alkylenedioxy; lower alkoxy optionally  
substituted with aryl, hydroxy, cyano, amino,  
lower alkoxycarbonylamino, lower  
5 alkylsulfonylamino or carbamoylamino;  
nitro; amino; heterocyclic group; lower  
alkylthio; lower alkylsulfinyl; or lower  
alkylsulfonyl;

$R^4$  is hydrogen; cyano; amino optionally substituted  
10 with phthaloyl or lower alkyl; aryl;  
heterocyclic group; lower alkoxy; hydroxy;  
lower alkylsulfonyloxy; lower alkanoyloxy;  
lower alkyl substituted with tritylamino and  
lower alkoxycarbonyl, amino and lower  
15 alkoxycarbonyl, amino and carboxy, amino and  
carbamoyl, or amino and hydroxy; N-lower  
alkoxycarbonyl-N-lower alkylamino; lower  
alkanoyl optionally substituted with  
halogen; carboxy; lower alkylsulfonyl;  
20 sulfo; lower alkylsilyloxy; lower  
alkoxycarbonyl; sulfamoyl optionally  
substituted with lower alkyl; carbamoyl  
optionally substituted with lower alkyl;  
lower alkylthio; lower alkylsulfinyl;  
25 carbamoyloxy; thioureido; or  
a group of the formula:



in which G is  $-CO-$  or  $-SO_2-$ ;

J is  $-N(R^6)-$

30 (wherein  $R^6$  is hydrogen or lower alkyl); and

$R^5$  is amino optionally substituted with  
lower alkoxycarbonyl or lower

alkyl; lower alkyl optionally  
substituted with hydroxy, lower  
alkoxycarbonylamino, lower  
alkanoyloxy, amino or halogen;  
lower alkoxy; hydrogen;  
heterocyclic group; or aryl;

X is O, S, SO or SO<sub>2</sub>;

Y is CH or N;

Z is lower alkylene or lower alkenylene; and

m is 0 or 1;

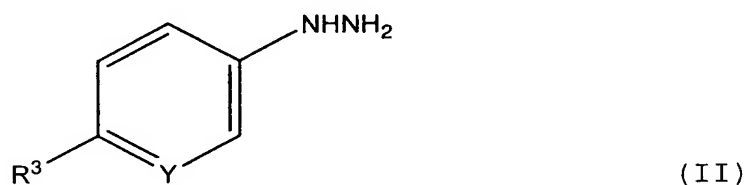
provided that when R<sup>4</sup> is hydrogen;

then R<sup>3</sup> is lower alkyl substituted with amino,  
carbamoylamino or lower  
alkylsulfonylamino; or lower alkoxy  
substituted with aryl, hydroxy, cyano,  
amino, lower alkoxycarbonylamino,  
lower alkylsulfonylamino or  
carbamoylamino;

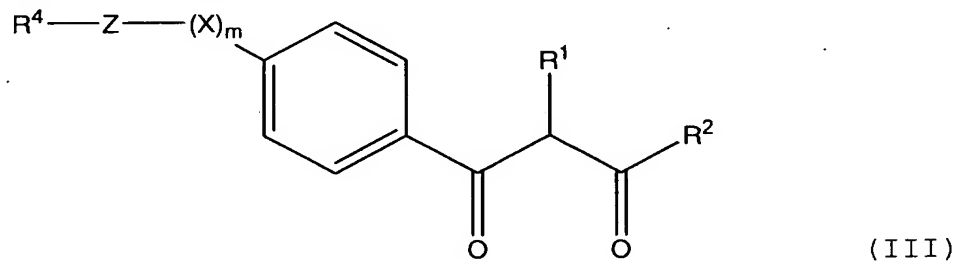
or salts thereof,

which comprises,

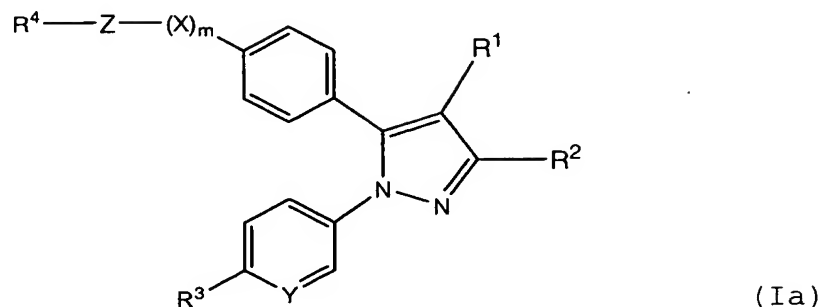
1) reacting a compound of the formula:



or its salt with a compound of the formula:



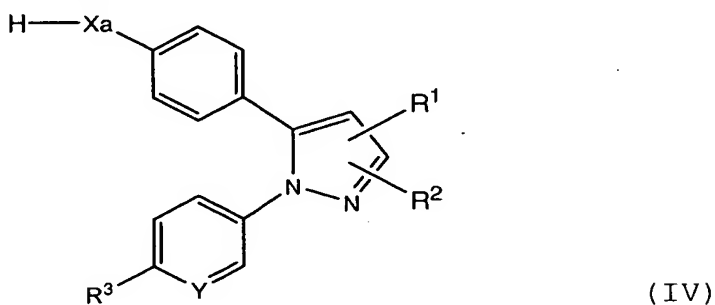
or its salt in the acidic condition to provide a compound of the formula:



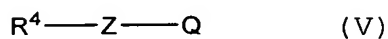
or its salt, in the above formulas,

5      $R^1$ ,  $R^2$ ,  $R^3$ ,  $R^4$ , X, Y, Z and m are each as defined above,  
or

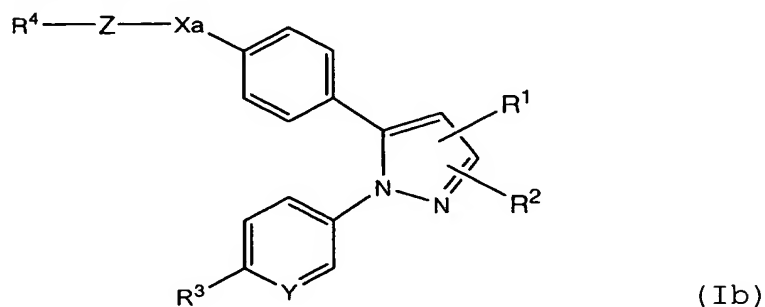
2) reacting a compound of the formula:



10    or its salt with a compound (V) of the formula:



or its salt to provide a compound of the formula:



15

or its salt, in the above formulas:

$R^1$ ,  $R^2$ ,  $R^3$ ,  $R^4$ , Y and Z are each as defined above,



Xa is O or S, and  
Q is hydroxy or an acid residue.

6. A pharmaceutical composition comprising the compound  
5 of Claim 1, as an active ingredient, in association with  
a pharmaceutically non-toxic carrier or excipient.

7. A compound of Claim 1 for use as a medicament

10 8. A method for treatment and/or prevention of  
inflammatory conditions, various pains, collagen diseases,  
autoimmune diseases, various immunity diseases, analgesic,  
thrombosis, cancer or neurodegenerative diseases which  
comprises administering an effective amount of the compound  
15 of Claim 1 to human beings or animals.

9. Use of the compound of Claim 1 for the manufacture of  
a medicament for treatment and/or prevention of  
inflammatory conditions, various pains, collagen diseases,  
20 autoimmune diseases, various immunity diseases, analgesic,  
thrombosis, cancer or neurodegenerative diseases in human  
beings or animals.

10. The analgesic agent comprising the compound of Claim  
25 1, which is usable for treating and/or preventing pains  
caused by or associated with acute or chronic inflammations  
without causing gastrointestinal disorders.

11. The analgesic agent of Claim 10, which is usable for  
30 treating or preventing pains caused by or associated with  
rheumatoid arthritis, osteoarthritis, lumbar rheumatism,  
rheumatoid spondylitis, gouty arthritis, or juvenile

arthritis; lumbago; cervico-omo-brachial syndrome;  
scapulohumeral periarthritis; pain and tumescence after  
operation or injury without causing gastrointestinal  
disorders.

5

12. A commercial package comprising the pharmaceutical  
composition containing the compound (I) identified in Claim  
1 and a written matter associated therewith, wherein the  
written matter states that the compound (I) can or should  
10 be used for preventing or treating inflammatory conditions,  
various pains, collagen diseases, autoimmune diseases,  
various immunity diseases, analgesic, thrombosis, cancer  
or neurodegenerative diseases.